

Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	18 October 2022
Team ID	PNT2022TMID06880
Project Name	Project – Estimate the crop yield using data analytics
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Emila Paul Y S
		USN-2	As a user, I will receive confirmation pop up once I have registered for the application	1	High	Subiksha M S
		USN-3	As a user, I can register for the application through Gmail	2	Medium	Likithe K
	Login	USN-4	As a user, I can log into the application by entering email & password	1	High	Anbu Priya A D
Sprint-2	Understanding the dataset	USN-5	Downloaded the dataset and understood the number of features used in it.	3	High	Subiksha M S
	Loading the dataset	USN-6	The crop_production.csv dataset is loaded into the ibm cognos platform	5	High	Likithe K
	Visualisations	USN-7	As a user,I can view the various visualisations which give me more insight.	6	High	Anbu Priya A D
	Dashboard	USN-8	As a user,I can make use of the interactive dashboard.	7	High	Emila Paul Y S
Sprint-3	Story	USN-9	As a user,I can able to view the stories which will be more helpful for me	6	High	Anbu Priya A D

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
	Report	USN-10	As a user,I can able to view the reports of various crop yields in different areas which will be more helpful for me	6	High	Emila Paul Y S
Sprint-4	Database	USN-11	For storing the user informations and their feedbacks ,database has been created	5	High	Likithe K
	Feedback form	USN-12	As a user,I can give my feedback	4	High	Subiksha M S
	Integration	USN-13	Integrating all the features and created a web page for better user understanding	6	High	Emila Paul Y S

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

Reference:

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

Burn Down chart

